



OIL REPORT

LAB NUMBER: D66132
 REPORT DATE: 2/10/2009
 CODE: 63/284

UNIT ID: 02 C230
 CLIENT ID: 34500
 PAYMENT: CC: Visa

UNIT	MAKE/MODEL: Transmission Mercedes Automatic	OIL TYPE & GRADE: Auto Transmission Fluid
	FUEL TYPE:	OIL USE INTERVAL: 68,000 Miles
	ADDITIONAL INFO:	

CLIENT	
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COMMENTS FRANKLIN: This is the first oil change in this transmission, which probably explains most of the high wear and silicon. A lot of the metal is from break-in, while silicon is likely from sand-casted parts and sealers. You also ran this oil longer than most ATF's we see (universal averages are based on 40K miles) so that also contributed to the high metals. Insolubles were high at 0.2%, which shows the oil needed to be changed. We found enough potassium and sodium to show the possibility of coolant in the ATF, though not a lot. Check back to watch this.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	69,000	UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	MI/HR on Unit	69,000						
	Sample Date	02/03/09						
	Make Up Oil Added	0 qts						
	ALUMINUM	27	27					13
	CHROMIUM	0	0					0
	IRON	102	102					69
	COPPER	73	73					80
	LEAD	35	35					9
	TIN	5	5					5
	MOLYBDENUM	0	0					4
	NICKEL	0	0					0
	MANGANESE	10	10					3
	SILVER	0	0					0
	TITANIUM	0	0					0
	POTASSIUM	12	12					3
	BORON	53	53					80
	SILICON	14	14					8
	SODIUM	36	36					11
	CALCIUM	32	32					343
	MAGNESIUM	2	2					4
	PHOSPHORUS	245	245					363
	ZINC	12	12					54
	BARIUM	0	0					4

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	45.7	42-51				
	cSt Viscosity @ 100°C	5.93	4.8-7.9				
	Flashpoint in °F	370	>335				
	Fuel %	-					
	Antifreeze %	?					
	Water %	0.0	<0.1				
	Insolubles %	0.2	<0.1				
	TBN						
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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